AQUATIC AV®

products with a watertight reputation

WATER/DUST PROOF CD MEDIA CONTROL CENTER
AQ-CD-4B

OWNERS MANUAL

WATER/DUST PROOF CD MEDIA CONTROL CENTER

AQ-CD-4B

Made for iPod iPhone

mp3

USB 2.0

COMPACT disc DIGITAL AUDIO

PLEASE READ THIS INSTRUCTION MANUAL BEFORE INSTALLATION AND OPERATION

CAUTION:

MOBILE CD PLAYER IS A CLASS I LASER PRODUCT. HOWEVER THIS MOBILE CD PLAYER USES A VISIBLE/INVISIBLE LASER BEAM WHICH COULD CAUSE HAZARDOUS RADIATION EXPOSURE IF DIRECTED. BE SURE TO OPERATE THE CD PLAYER CORRECTLY AS INSTRUCTED.

USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

DO NOT OPEN COVERS AND - DO NOT REPAIR YOURSELF. REFER SERVICING TO QUALIFIED PERSONNEL.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, AND ANNOYING INTERFERENCE, USE ONLY THE RECOMMENDED ACCESSORIES.

THIS DEVICE IS INTENDED FOR CONTINUOUS OPERATION.

Owners Manual - CD Media Control Center

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FEATURES

- **PLL synthesizer stereo radio**
- **Automatic memory storing**
- **CD/MP3/WMA player**
- **AM/FM radio**
- **Fold-down fascia panel**
- **USB interface**
- **iPod / iPhone interface**
- **Dual Zone/Dual Source function**
- **Wired remote ready (sold separately)**
- **Wireless (RF) remote ready (sold separately)**
- **Stereo pre-outputs (4V)**
- **Subwoofer output**
- **Auxiliary input**
- **2x 12V Trigger**
- **Optional Remote Controls compatible with multi-function software**

Compatible iPhone & iPod models:

iPhone 4S
16GB 32GB 64GB

iPhone 4
8GB 16GB 32GB

iPhone 3GS
8GB 16GB 32GB

iPod touch
4th generation
8GB 16GB 32GB 64GB

iPod nano
6th generation
8GB 16GB

SUPPORTED DISC TYPES

- Compact Discs (CDs)
- CD Recordable (CD-R)
- CD Rewritable (CD-RW)

SUPPORTED AUDIO FORMATS

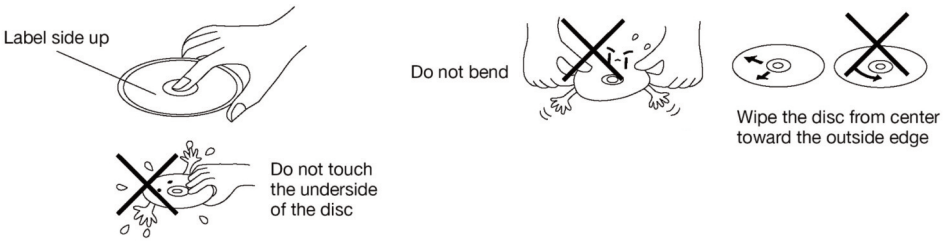
- Playback CD-DA
- MP3
- WMA digital music files on CD-ROM.

MP3 and WMA:
Supported Sampling frequencies: 32kHz,44kHz,48kHz
Supported Bit-Rates:64-256kbps variable bit rate.

DISC CLEANING

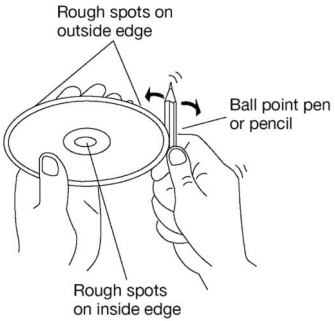
Use a dry soft cloth to wipe the surface. If the disc is dirty, use a soft cloth slightly dampened with rubbing alcohol. Never use solvents such as benzene, thinner or conventional record cleaners as they may scratch the surface of the disc.

A disc may become somewhat scratched (although not enough to make it unusable) depending on the way it is handled and conditions in the usage environment. Note these scratches are not an indication of any problem with the player.



PREPARING DISCS WITH ROUGH SPOTS

A new disc may have rough edges on its inside and outside edges. If a disc with rough edges is used, the proper setting will not be performed and the player will not play the disc. Therefore, remove the rough edges in advance by using a ballpoint pen or pencil as shown on the right. To remove the rough edges, press the side of the pen or pencil against the inside and outside edges of the disc.



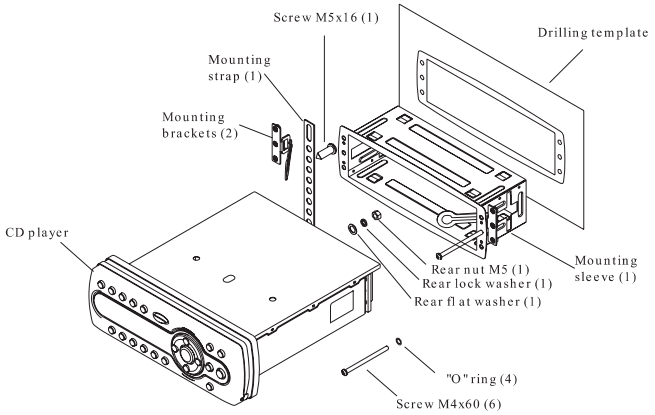
INSTALLATION

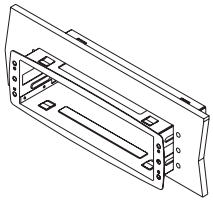
The AQ-CD-4 Media Center is designed for the harsh conditions of the marine environment. For easy system set-up, mount the Media Center so the front panel controls will be easily accessible. In addition, observe the following precautions:

1. Check clearances on both sides of a planned installation before drilling any holes or installing any screws.

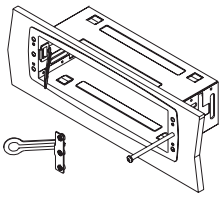
2. When routing RCA audio cables keep them away from power cables and output speaker wires.

3. Due to the harsh conditions of the marine environment, Always support the back of the unit with the supplied back strap.

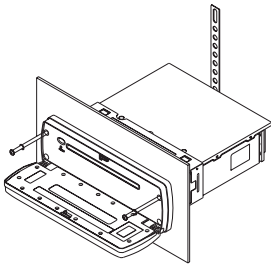




1.Slide mounting can into DIN opening.

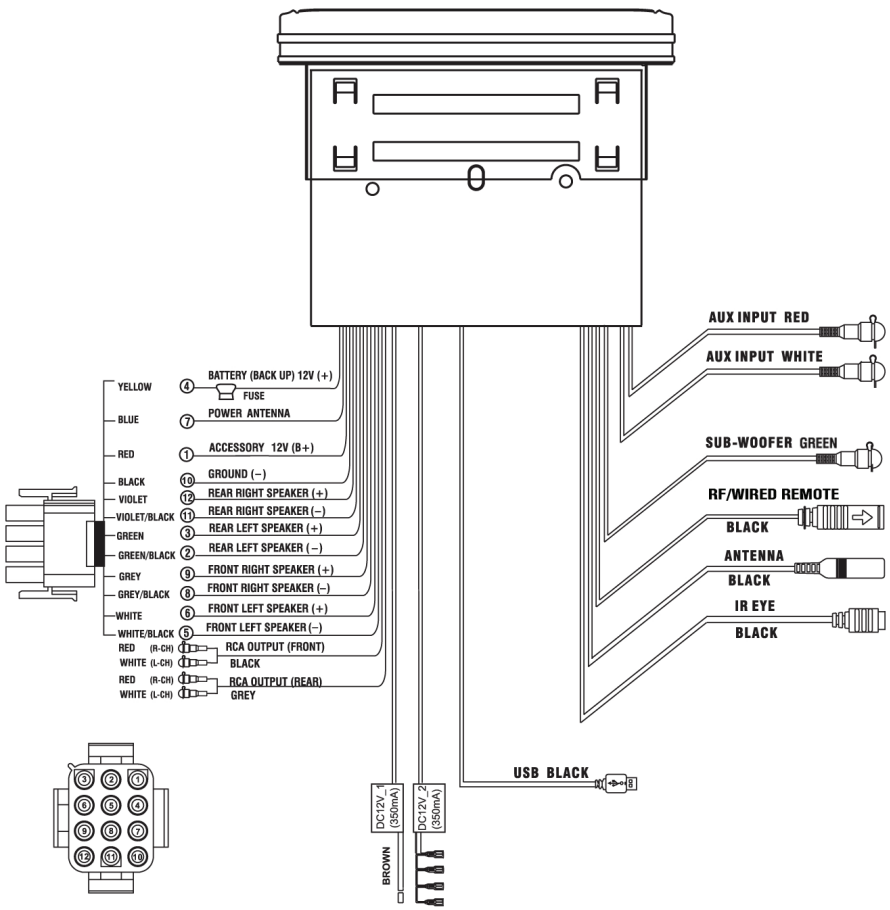


2.Slide backing brackets into position and tighten center bolts. Remove backing brackets handles by bending backet handles by bending them until they break off.



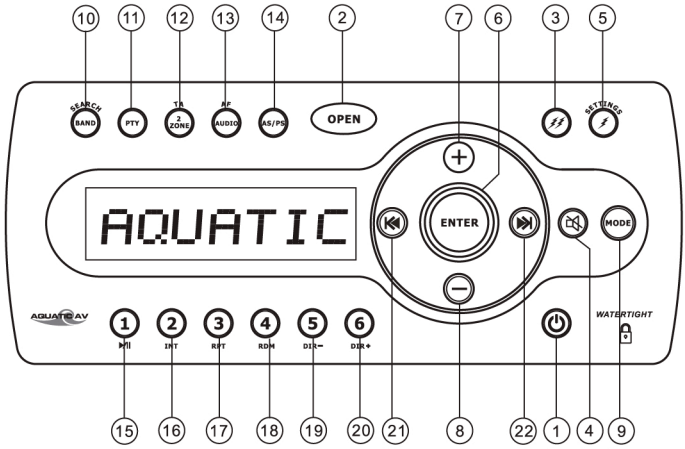
3.Slide Media Center into mounting cage. Secure Media Center using supplied Stainless Steel hardware and back strap.

CONNECTIONS & 12-PIN HARNESS



VIEW B-B
WIRE INSERTION VIEW

PIN NO.	WIRE COLOR	DESCRIPTION
1	RED	ACCESSORY (+12V)
2	GREEN/BLACK	LEFT REAR SPEAKER (-)
3	GREEN	LEFT REAR SPEAKER (+)
4	YELLOW	BATTERY (+12V)
5	WHITE/BLACK	LEFT FRONT SPEAKER (-)
6	WHITE	LEFT FRONT SPEAKER (+)
7	BLUE	POWER ANTENNA
8	GRAY/BLACK	RIGHT FRONT SPEAKER (-)
9	GRAY	RIGHT FRONT SPEAKER (+)
10	BLACK	GROUND
11	VIOLET/BLACK	RIGHT REAR SPEAKER (-)
12	VIOLET	RIGHT REAR SPEAKER (+)



OPERATIONS:

KEY	SYSTEM		TUNER		CD		MP3/WMA		USB		iPod	
	Short Press	Long Press	Short Press	Long Press	Short Press	Long Press	Short Press	Long Press	Short Press	Long Press	Short Press	Long Press
1	Power											
2		OPEN (Panel release button)										
3	12V_2											
4	Mute											
5	12V_1	Settings										
6	Enter				Enter		Enter		Enter		Enter	
7	Volume Up											
8	Volume down											
9	Mode											
10			Band						Search		Search	
11			PTY									
12	2 Zone			TA								
13	Audio			AF								
14			PS	AS								
15			M1	Memory 1	Pause/Play		Pause/Play		Pause/Play		Pause/Play	
16			M2	Memory 2	INTRO ALL→OFF		INTRO DIR→ INTRO ALL→ OFF		INTRO DIR→ INTRO ALL→ OFF		INTRO ALL→OFF	
17			M3	Memory 3	Repeat ONE→ Repeat ALL		Repeat ONE→ Repeat DIR → Repeat ALL		Repeat ONE→ Repeat DIR → Repeat ALL		Repeat ONE→ Repeat ALL	
18			M4	Memory 4	Random ALL→ OFF		Random DIR→ Random ALL→ OFF		Random DIR→ Random ALL→ OFF		Random DIR→ Random ALL→ OFF	
19			M5	Memory 5			Up Folder		Up Folder			
20			M6	Memory 6			Down Folder		Down Folder			
21			Seek Down	Tuner Down	File/Track Down	Fast Backward	File/Track Down	Fast Backward	File/Track Down	Fast Backward	File Down	Fast Backward
22			Seek Up	Tuner Up	File/Track Up	Fast Forward	File/Track Up	Fast Forward	File/Track Up	Fast Forward	File Up	Fast Forward

MAIN FUNCTION CONTROLS

POWER ON/OFF
Press the POWER button to turn the unit ON or OFF

PANEL OPEN
Press OPEN (OPEN) button to open the front panel/fascia and reveal disc slot.

MUTE
Short press the MUTE button to mute the audio output and “MUTE” will appear on the display. Press the MUTE button again to restore the audio output to the previous level.

MODE
Short press the MODE (MODE) button to cycle through the available modes of operation as indicated on the display panel. Available modes are DISC, AUX, USB/IPOD, FM1, FM2, FM3, AM1, AM2

VOLUME UP/DOWN
Press the volume up (+) or volume down (−) buttons to control volume to the desired level. When the volume is adjusted the level is shown on the display panel as a number and guage bar ranging from 00 (lowest) to 50 (highest).

12V DC EXTERNAL TRIGGERS
This unit has two buttons 12V trigger buttons named 12V-1 and 12V-2. These can be used to transmit switching or ‘trigger’ signals, capable of driving 12VDC/350mA and operating relays for external equipment (not supplied) such as deck lighting etc.

The 2 triggers will be activated ON/OFF via the following.

- Trigger 1 (SETTINGS): Short press
- Trigger 2: Short press

RESET FUNCTIONS

To reset the main unit
Open the front panel/fascia and use a pencil or any non-metallic object to press & hold the reset button for five seconds to reset the main unit and the unit will return to the factory default settings.

To reset the CD settings
When the CD is playing press AS/PS button to enter the Menu. Select DEFAULT then select RESTORE and press ENTER to confirm. The CD Setting will resume to factory default value.

Ejecting the Disc
Open the front panel and press the EJECT button to eject the disc. Close the front panel manually.

SETTINGS MENU FUNCTIONS

- VOL PGM: Max is 20 volume
- LOC/DIST: Tuner settings for Local and Distance
- STEREO/MONO: Switch from stereo to mono output
- AREA: Tuner freq. Step spacing
- BEEP TONE: ON/OFF
- CONTRAST: Adjust display contrast
- DIMMER: Backlight High/Mid/Low
- LOW BATTERY: 10.5V low battery alert on/off
- RDS MENU: Tuner RDS mode ON/OFF

ACCESSING SETTINGS MENU

To access the SETTINGS menu press and hold the SETTINGS button more than 3 seconds.

SETTINGS menu list will be displayed for 5 seconds on the LCD. If no other buttons are pressed within the 5 second time-out the unit will exit the SETTINGS mode.

To navigate through the menu use VOLUME +/- buttons.

Press the ENTER button to select the item and enter into the sub menu.

To adjust the selected SETTINGS sub-menu item, press the VOLUME +/- buttons.

After the selected SETTINGS item has been changed press button to return to the previous item. If no other buttons are pressed within the 5 second time-out the unit will exit SETTINGS mode.

DESCRIPTION OF SETTINGS FUNCTIONS

VOL PGM
Allows volume level to be set when the unit is turned on. VOL PGM 20 is the default setting. Press the VOLUME +/- buttons to set to the desired VOL PGM level.

If in normal operation the volume is set louder than the VOL PGM value, the unit will revert back to the set VOL PGM level when the unit is next turned on. If in normal operation the volume is set lower than the VOL PGM value, the unit will maintain this level when next turned on. Maximum VOL PGM level is 20.

LOC/DIST
Press the VOLUME +/- buttons to select LOCAL or DISTANCE mode. This feature is used to determine the strength of the signals at which the tuner will lock on to during automatic tuning. DISTANCE is the default setting, allowing the radio to tune into a broader range of signals. To set the unit to select only strong local stations press the volume+/- button until LOCAL appears in the display.

STEREO/MONO
STEREO is the default setting. User now has 5 seconds to adjust it from STEREO to MONO by using SETTINGS OPERATION VOLUME+/- key.

AREA
“USA” is the default setting. User now has 5 seconds to select “USA” to “EUROPE” by pressing the VOLUME+/-.

BEEP TONE
ON is the default setting. User now has 5 seconds to adjust from ON to OFF by pressing the VOLUME+/- buttons.

CONTRAST
CONTRAST 5 is the default setting. The user has 5 seconds to change it from 0-10 by pressing the VOLUME+/- buttons.

DIMMER
The dimmer feature of the display is set to DIMMER HIGH by default. User can use the VOLUME+/- buttons to adjust it to High, Middle or Low.

LOW BATTERY ALARM
LOW BATTERY OFF is the default setting. User now has 5 seconds to use the VOLUME+/- buttons to adjust it from OFF to ON.

If LOW BATTERY ON is selected the alarm unit will sound a beep tone over the speaker output. The visual warning “LOW BATT” message will be displayed on the LCD. If selected LOW BATTERY OFF no alert will be sounded and the “LOW BATT” message will not be displayed when in low voltage state.

RDS - TRAFFIC ALERT (TA)

TA SEEK is the default setting. User now has 5 seconds to select TA SEEK or TA ALARM by pressing the VOLUME+/- buttons

TA SEEK
When a newly tuned station does not receive TP information for several seconds, the radio retunes to next station which has not the same station (PI) as the last station, but has the TP information. When TP information gets lost at the current station for retune time which is set by RETUNE SHORT (30 sec.) or RETUNE LONG (90 sec.), the radio start to retune to next same PI station. When same PI station does not catch in 1 cyclic search, the radio retunes to next station with TP information.

TA ALARM
When this mode is selected any automatic retune mode is not activated. Only double beep sound (ALARM) is output.

When a newly tuned station does not have TP information for several seconds, beeps come out. When TP information gets lost at the current station for retune time, the beep sound is out-putted. When newly tuned station has not RDS signal PI SEEK is suppressed somewhat.

RDS - PROGRAMME IDENTIFICATION

PI MUTE is the default setting. User now has 5 seconds to select : PI MUTE to PI SOUND by pressing the VOLUME+/- buttons.

While AF switching is implemented in C201 station, AF can switch to 100MHz, which is non genuine AF (where, different PI with same AF) in short “DIP” with same AF) in short “DIP”.

The car radio has special procedure to reduce even this kind of unavoidable situation however there is a limit to be escaped from this serious case perfectly. In that serious case, 2 mode is selectable as follows:

PI SOUND
When above different PI sound (DIP) is heard once in a while, the DIP's sound will be heard for a short time.

PI MUTE
Under above same situation, a mute sound will be heard for a short time.

RDS - RETUNE

RETUNE SHORT is the default setting. User now has 5 seconds to select RETUNE SHORT or RETUNE LONG by pressing the VOLUME+/- buttons.
The initial time of automatic TA search or PI search modes is selected.

When PI information is not caught for retune time, the radio starts to retune to next same PI station. When same PI station does not catch 1 cyclic search, the radio goes to last station and waits for several minutes until PI code is received.

RETUNE L mode: Selected as 90 seconds.

RETUNE S mode: Selected as 30 seconds.

RDS - MASK

MASK DIP is the default setting. User now has 5 seconds to select MASK DIP to MASK ALL by pressing the VOLUME+/- buttons.

The AF frequency (which has different PI or NO RDS signal with high field strength) is masked during checking PI when the unit searches AF. The unit doesn't search this AF (DIP) for few minutes.

In the case of the AF of NO RDS signal with high field strength, if the real AF is wrongly masked as DIP by some interference, the unit hesitates to search real Afs. For this reason, the unit has the user option (MASK DPI) which doesn't mask the AF of NO RDS signal with high field strength.

In MASK DPI mode, the wrong sound or long mute (according to PI SOUND or PI MUTE) can be heard from the AF station which has NO RDS signal and of which the field strength is higher than that of the currently tuning AF (station). But, these phenomenons are rare and the user will hardly Europe.

MASK DPI
Masked only the AF which has different PI.

MASK ALL
Masked the AF which has different PI and NO RDS signal with high field strength. hear the wrong sound in whole

RDS - EON TA

EON TA LOCAL is the default setting. User now has 5 seconds to select EON TA LOCAL to EON TA DISTANCE by pressing the VOLUME+/-.

EON TA LOCAL
When the filed strength level of EON linked is less than threshold level, the radio does not switch that station, and a customer can hardly listen to any disturbances.
When EON TA LOCAL mode is selected, “EON TA LO” on numeric
display is indicated for a few seconds.

EON TA DISTANCE
EON TA switch is tried to implemented by the information of current station.
When EON TA DISTANCE mode is selected, “EON TA DX” on numeric display is indicated for a few seconds.
The RDS data used are the PI, PS, AF, TP, TA, EON and PTY data.

RDS - TA VOL

TA VOL 10 is the default setting. User now has 5 seconds to change it from 0-50 by pressing the VOLUME+/- buttons.

RDS - REGION

REGION OFF is the default setting. User now has 5 seconds to select REGION OFF to REGION ON by press the VOLUME+/- buttons.

Some broadcasting stations change their program from normal broadcasting to regional broadcasting for a certain time period. When in REGION ON mode the current listening program remains unchanged. When in REGION OFF mode it allows the reception moves to the regional station.

AUDIO MENU

Short press AUDIO button to access the audio menu. User can navigate through the audio menu items by pressing the VOLUME+/- button repeatedly. Once the desired menu item appears on the display, press the ENTER button to select the menu item to be adjusted and adjust using the VOLUME+/- buttons within 5 seconds. Press ⏮ button to return to the upper menu item.

BASS
User has 5 seconds to use the VOLUME+/- buttons to adjust the desired bass level range from -10 to +10.

TREBLE
User has 5 seconds to use the VOLUME+/- buttons to adjust the desired treble level range from -10 to +10.

BALANCE
User has 5 seconds to use the VOLUME+/- buttons to adjust the Balance between the right and left speakers from 10R (full right) to 10L (full left). L=R represents equal balance between the right and left speakers.

FADER
User has 5 seconds to use the VOLUME+/- button to adjust the Fader between the front and rear speakers from 10R (full rear) to 10F (full front). ”F=R” represents equal balance between the front and rear speakers.

SUBWOOFER MENU

SUB-W ON/OFF
Subwoofer off is the default setting. User now has 5 seconds to select OFF to ON by pressing the VOLUME+/- buttons.

SUBWOOFER FREQUENCY
User has 5 seconds to use the VOLUME+/- buttons to select the three different Low pass filters (80Hz,120Hz or 160Hz).

i *The Sub-woofer LPF control is only applicable if the unit is equipped with the optional sub-woofer line out, and only if the unit is connected to an optional sub-woofer amp and speaker.*

SUBWOOFER VOLUME LEVEL
User has 5 seconds to use the volume up or down button to adjust the Sub-woofer volume level from “00” to “50”

EQUALIZER MENU

User has 5 seconds to use VOLUME+/- to select desired audio mode. There are five modes: OFF→FLAT→ROCK→POP→CLASSIC

DUAL ZONE - AV INPUT

The unit can be connected to a portable audio player through the audio input cable on the back of the unit. You can press MODE button to change the mode to audio input mode.

The unit is equipped with Dual Zone operation. This function is used to select a different audio output source for Front (Zone 1) and Rear (Zone 2) speakers. The details of Dual Zone operation are as follows:

DUAL ZONE - ON/OFF

OFF is the default setting. Press the 2-ZONE button on the control panel and press the VOLUME+/- button to select between Dual Zone ON or OFF then press ENTER to confirm the selection. The “2-ZONE” icon will appear on the LCD after Dual Zone is selected ON.

DUAL ZONE - ZONE OPERATION

Once Dual Zone ON is selected short press the 2 ZONE button repeatedly to change between the Zone 1(Front) and Zone 2(Rear) sources.

If Front Zone (Zone 1) is selected the user has 10 seconds to navigate through the different modes (Disc, USB, AUX etc) by using the VOLUME +/- buttons.

Press ENTER button to confirm selection for Front speaker audio output.

If Rear Zone (Zone 2) is selected, user has 10 seconds to navigate through different modes (Disc, USB, AUX etc) by using the VOLUME +/- buttons.

Press ENTER button to confirm selection for Rear speaker audio output.

If no selection is made within 5 seconds the unit will resume to the previous mode.

OPERATE FUNCTION OF ZONE 1 / ZONE 2

When 2-ZONE is turned ON the MODE button is used to change between Zone 1 & Zone 2 sources.

Press MODE button repeatedly to change between Zone 1 and Zone 2 modes.

DEFAULT SETTING WHEN ZONE 2 IS ON

The default source mode for Zone 1 is Radio & Zone 2 is Radio

The default volume level is 20 for both Zone 1 & Zone 2 audio outputs (or the volume level set as VOL PGM level set in the Settings Menu detailed on page 11).

FM BAND OPERATION

Press BAND (SEARCH / BAND) to change between FM bands and AM (MW) bands. The reception band will change in the following order:

FM1--FM2--FM3--AM1(MW1) --AM2(MW2)

TUNING UP / DOWN

MANUAL TUNING
Press and hold the TUNING up (⏭) or TUNING down (⏮) button for more than 3 seconds to active the manual tuning mode. The radio frequency will tune up or down rapidly and will stop when you released the button. If buttons have not been pressed for 5 seconds, it will return to Auto Seek tuning mode

AUTO SEEK TUNING
Short press the TUNING up (⏭) or down (⏮) buttons to seek the next station automatically.

USING & STORING PRESET STATIONS

Six numbered buttons store and recall stations for each band (1 ▶/II) (2 INT) (3 RPT) (4 RDM) (5 DIR−) (6 DIR+)

AUTO STORE (AS)
Select a band (if needed). Press and hold AS/PS (AF / AUDIO) button for 3 seconds. It will select 6 strong stations and store them in the current band automatically.

PRESET SCAN (PS)
Scan stations stored in the current band. Select a band (if needed). Short press AS/PS (AF / AUDIO) button. The unit will scan and listen to each preset station for 5 seconds.

Press AS/PS (AF / AUDIO) button again to stop scanning when the desired station is found.

STEREO / MONO TUNER OPERATION

STEREO
The unit will automatically pick up a stereo signal when available. When in stereo mode, the “ST” icon appears on the LCD. When no stereo signal is available the unit will automatically revert to mono operation and “ST” icon will not be displayed.

MONO
When you select the MONO mode the unit will output MONO a signal.

Select MONO mode to reduce noise if the radio signal is weak.

RDS FUNCTION

AF BUTTON (AF / AUDIO)
ON is the default setting for AF mode. “AF” icon is displayed on the LCD. AF search is activated when reception is bad.

Press the AF button for more than 3 seconds to turn OFF AF mode and the “AF” icon will disappear.

TA BUTTON (TA / 2 ZONE)
Press and hold the TA button for more than 3 seconds to turn on TA mode. The “TA” icon appears on the LCD. Press the TA button again to turn off TA mode. ”TA” icon will disappear on the LCD.

When traffic announcement is transmitted, regardless of the mode, traffic announcement is received.

When TA is on SEEK, SCAN, AUTO MEMORY functions can be received or saved only when traffic program identification code has been received.

When TA is ON traffic program identification code is not received during specified time. TA ALARM : NO TA / TP is displayed and alarm is set off. TA SEEK : TA SEEK is activated.

PTY BUTTON (PTY)
PTY is displayed when PTY button is pressed. If there are no keys pressed for 5 seconds, previously selected PTY is searched. During 1 LOOP, i desired PTY is not found, NO PTY

SPEECH & MUSIC PROGRAM TYPES

Press PTY button (PTY) and “PTY MUSIC” will be displayed for 5 seconds

Press ENTER to access the PTY MUSIC program menu and use VOLUME+/- buttons to cycle through the different program types as detailed below.

Press ENTER button to select the desired music type.

- POP MUSIC
- ROCK MUSIC EASY LISTENING
- LIGHT CLASSICS M
- SERIOUS CLASSICS
- OTHER MUSIC
- JAZZ MUSIC
- COUNTRY MUSIC
- NATIONAL MUSIC
- OLDIES MUSIC
- FOLK MUSIC

Press PTY(PTY) button then press the VOLUME+/- buttons to navigate to PTY SPEECH and "PTY SPEECH" will be displayed for 5 seconds

Press ENTER button to access the PTY SPEECH program menu and use VOLUME+/- buttons to navigate the desired program types detailed below.

Press ENTER button to select the desired speech type.

- NEWS
- CURRENT AFFAIRS
- INFORMATION
- SPORT
- EDUCATION
- DRAMA
- CULTURES
- SCIENCE
- VARIED
- WEATHER
- FINANCE
- CHILDREN'S PROGS
- SOCIAL AFFAIRS
- RELIGION
- PHONE IN
- TRAVEL & TOURING
- LEISURE & HOBBY
- DOCUMENTARY

GENERAL TUNER OPERATION

AF: Alternative Frequencies
Frequency list of broadcasting stations transmitting the same program

TP: Traffic Program Identification
Identification data for traffic information-broadcasting station

TA: Traffic Announcement Identification
Identification data showing traffic information is being transmitted or not

PTY: Program Type Code
Contents of programs such as news, light music, sports etc

PLAYING & CONTROLLING CDs

PLAY/PAUSE BUTTON (1)

Press to pause playback.

Press again to resume the playback.

FAST FORWARD & FAST REVERSE ⏭ or ⏮

Press and hold FAST FORWARD ⏭ for 3 seconds to fast forward through the disc.
Press PLAY (1) to resume normal playback.

Press and hold FAST REVERSE ⏮ for 3 seconds to fast reverse through the disc.
Press PLAY (1) to resume normal playback.

TRACK SELECT ⏮ or ⏭

Short press the TRACK UP ⏮ or TRACK DOWN ⏭ button to skip to the next or previous track on the CD, The selected track number will appear on the display.

Press and hold Press the TRACK UP ⏮ or TRACK DOWN ⏭ button for more than 2 second to fast forward or fast reverse through the disc. CD play starts when the button is released.

REPEAT BUTTON (3)

Short press RPT (3) button to active the repeat function. It will play the current song repeatly.

Press RPT (3) again to disable the repeat function.

ENTER BUTTON

Use this button to confirm selections.

PREVIEW/INTRO BUTTON (2 INT)

Press INT (2 INT) button to play first ten seconds of each track. “INTRO ALL” will appear on the LCD.

Press INT (2 INT) again to stop intro and listen to the track and “INTRO ALL” will no longer be displayed.

RANDOM PLAYBACK BUTTON (4 RDM)

Short press RDM (4 RDM) button to active the random playback function

Press RDM (4 RDM) again to disable the random playback function.

SELECTING DIRECT UP / DOWN

Press DIR- (5 DIR−) or DIR+ (6 DIR+) button to select up ten songs or down ten songs.

PLAYING & CONTROLLING MP3/WMA FILES

TRACK SELECT ⏮ or ⏭

The player plays the first track automatically. When the track is finished the second track will begin playing and the displayed track number will be updated.

Press the TRACK UP ⏭ or TRACK DOWN ⏮ button for less than one second to skip to the next or previous track on the CD. The selected track number will appear on the display. Press and hold Press the TRACK UP ⏭ or TRACK DOWN ⏮ button for 2 seconds to fast forward or fast reverse through the disc.

PAUSE/PLAY BUTTON 1 ⏯

Press to pause playback. Press again to resume normal playback.

FAST FORWARD & FAST REVERSE ⏭ or ⏮

Press FAST FORWARD ⏭ to fast forward through the disc. Each time the button is pressed a new speed (2X,4X,8X or 20X) is selected.

Press PLAY 1 ⏯ to resume normal playback.

Press FAST REVERSE ⏮ to fast reverse through the disc. Each time the button is pressed a new speed(2X,4X,8X or 20X) is selected.

Press PLAY 1 ⏯ to resume normal playback.

REPEAT PLAYBACK BUTTON 3 RPT

Press RPT 3 RPT button to active the repeat function. The current song will be repeatly played.

Press RPT 3 RPT again to active the REPEAT DIR function. All files in the current folder will be played repeatly.

Press RPT 3 RPT a third time to disable the repeat function.

PREVIEW/INTRO BUTTON 2 INT

Short press INT 2 INT button to play first ten seconds of each file in the current folder and “INTRO DIR” will appear on the LCD.

Press INT 2 INT button for a second time to play first ten seconds of each file and “INTRO ALL” will appear on the LCD.

Press INT 2 INT button for a third time to exit intro mode.

RANDOM PLAYBACK BUTTON (4 RDM)

Press RDM (4 RDM) button to active random playback function and all songs on the USB will be played in random mode.

Press RDM (4 RDM) a second time to active the RANDOM DIR function. All the songs in the current folder will be played in random mode.

Press RDM (4 RDM) a third time to disable random playback.

SELECTING DIRECT UP/DOWN

Press DIR- (5 DIR−) or DIR+ (6 DIR+) button to select previous or next folder.

MP3/WMA OPERATION - MONITOR

When a MP3/WMA disc is inserted into the player and the following picture will appear on the monitor.

NAVI SEARCH BUTTONS

When playing MP3/WMA discs press SEARCH (SEARCH BAND) button to enter NAVI SEARCH.

Press the VOLUME+/- buttons to select MUSIC or PHOTO files and press ENTER to play.

NAVI SEARCH (SEARCH BAND)

Press SEARCH (SEARCH BAND) button to view MP3/WMA folders on LCD.

Press VOLUME+/- buttons to select a folder and press ENTER button to enter this folder. It will list all files of the folder on LCD.

PLAYING & CONTROLLING USB FILES

Connect the USB memory device to the USB connector of the unit and repeatedly press the MODE button until “USB” is displayed on LCD. The unit can playback the MP3/WMA format which are stored into the USB memory device.

Once the unit reads the USB memory device successfully the first file on the USB memory device will start playback automatically.

NAVI SEARCH BUTTON

1. Press the SEARCH button to display the USB folders on LCD.

2. Press VOLUME+/- buttons to navigate folders.

3. Press the ENTER button to enter the selected folder. A list of all files within the folder will be displayed on the LCD.

4. Press VOLUME+/- buttons to navigate to the desired file.

USB PLAYBACK AND OPERATION

USB device playback and operation functions are the same as the operation of MP3/WMA. Please refer to page 23.

If important files are stored on the USB device do not connect it to the AQ-CD-4 unit to play as operation could result in file loss. Aquatic AV assumes no responsibility for any loss of data.

PLAYING & CONTROLLING iPod/ iPhone

SWITCH TO iPod/iPhone MODE

When the unit is powered ON and iPod/iPhone is connected to the 30 pin connector, press the MODE button to change to iPod/iPhone mode and the unit will display “IPOD” then “IPOD READING” shortly after. The music files contained in the iPod/iPhone will then automatically playback.

TURNING iPod/iPhone POWER ON/OFF

The iPod/iPhone power turns on automatically as soon as it is connected to the 30 Pin connector and so long as the power is ON.

The iPod/iPhone power can be turned OFF by removing the iPod from the 30 Pin Connector or if the AQ-CD-4B is turned OFF. Under this condition the iPod/iPhone will initially go into pause mode and then into sleep mode approximately two minutes later.

While the iPod/iPhone is connected the power can not be turned on/off from the iPod/iPhone itself.

iPod/iPhone CHARGING

While connected to the unit and in iPod mode, the iPod/iPhone will automatically start re-charging, so long as the AQ-CD-4B has power switch ON. Enough battery must be available to turn on the iPod/iPhone in order to allow charging.

DISPLAY iPod/iPhone INFO ON LCD

The AQ-CD-4 unit can display the Song, Artist, Album name and elapsed time on the LCD display during iPod/iPhone playback.

SEARCHING IPod/IPhone

In the iPod/iPhone playback mode press BAND (SEARCH / BAND) to enter into the iPod/iPhone NAVI searching mode

Use the VOLUME+/- buttons to navigate and press the ENTER button to enter iPod/iPhone search methods as below:

1) Playlists
2) Artists
3) Albums
4) Genres
5) Songs
6) Composers
7) Audiobooks
8) Podcasts

Once the desired searching method is highlighted, and within 20 seconds, press the ENTER button to confirm and enter the chosen search mode.

Press the VOLUME+/- buttons to navigate through the Albums, Artists, Songs etc contained in the iPod/iPhone.

Press the ENTER button to confirm and play the selected song

During the searching mode press BAND (SEARCH / BAND) to move back to the last upper level of Albums, Playlists, Genres etc.

SKIP SONGS

Short press the TRACK UP ⏭ or TRACK DOWN ⏮ buttons to skip to the next or previous song on the iPod/iPhone.

FAST FORWARD / FAST REVERSE

Press and hold Press the TRACK UP ⏭ or TRACK DOWN ⏮ button for more than 2 seconds to fast forward or fast reverse through the song.

PAUSE/PLAY BUTTON (1)

Press to pause playback. Press again to resume normal playback.

PREVIEW/INTRO BUTTON (2 INT)

Press INT (2 INT) button to play first ten seconds of each file and “INTRO ALL” will appear on the LCD.

Press INT (2 INT) button again to exit this mode.

REPEAT PLAYBACK BUTTON (3 RPT)

Press RPT (3 RPT) button to repeat play the current song. The song will repeat until repeat play is disabled.

Press RPT (3 RPT) again to disable the repeat function.

RAMDOM PLAYBACK BUTTON (4 RDM)

Press RDM (4 RDM) button to enter random play of all songs on the iPod/iPhone.

Press RDM (4 RDM) again to disable the random function.

SPECIFICATIONS

Supported Media:	CD/iPod/iPhone/USB/MP3/AM/FM Media Center
Compatible Disc/Format:	See page 5 for detailed description
iPod/iPhone Ready:	Yes - via AQ-USBIP-6 cable (included)
iPod/iPhone Charging:	Yes - via AQ-USBIP-6 cable (included)
Dual Zone/Dual Source:	Yes
Inputs:	USB 2.0 cable - female (5V, 1A)
	Aux - 2x RCA
	Infra Red - 3.5mm Jack socket
Outputs:	Subwoofer - 1x RCA (2V)
	Aux - 2x RCA (4V)
Wired Remote Ready:	Yes - AQ-WR-4F (sold separately)
Wireless RF Remote Ready:	Yes - AQ-RF-34 (sold separately)
Operation Voltage:	10.7V - 15.6V DC
Current Draw:	7A (max), 17mA (standby)
Grounding System:	Negative Ground
Fuse:	15A mini ATM type
Output Power (max):	4x 45W @ 4 Ohms, 4x 72W @ 2 Ohms
Frequency Response:	20Hz - 20kHz
Signal to Noise Ratio (CD):	> 80dB
FM Tuner:	18x pre-set memory, switchable US/Euro frequencies
Frequency Range:	87.5MHz - 107.9MHz (200kHz space) / 87.5MHz - 108MHz
Usable Sensitivity:	≤ 15dB (SNR 30dB)
Signal to Noise Ratio:	50dB
AM or MW Tuner:	12x pre-set memory
Frequency Range:	530kHz - 1710kHz (10kHz space) / 522kHz - 1620kHz
Usable Sensitivity:	≤ 40dB (SNR 20dB)
Signal to Noise Ratio:	40dB
Waterproof:	Yes - IP66
Conformal Coated PCB:	Yes
UV Protection:	ASTM D4329 compliant, 500 hrs stable
Salt/Fog Protection:	ASTM B117 compliant, 500 hrs stable
Certification:	CE, RoHS, WEE, FCC
Operation Temperature:	-20°C to 70°C
Fascia Material:	500 hrs UV stable, UL approved
Chassis Material:	Stainless Steel
Max Mounting Angle:	30°
Dimensions (HxWxD):	90 x 229 x 216 mm
Accessories:	Protective Dust Cover AQ-SPC-4B (included)
Additional Features:	4-line Dot Matrix LCD display
	Adjustable LCD brightness
	Back-up memory (EEPROM)
	DSP EQ, Bass/Treble, Balance/Fader
	2x 12V Trigger outputs
	Stainless Steel mounting hardware

Specifications are subject to change without notice.

Before staring the trouble shooting process:
1) Check all wiring connections are in good order.

2) Confirm the '2-zone' feature is de-activated by pressing the '2-zone' button on the face of unit. The LCD will indicate 2-zone ON or OFF. If the LCD shows 2-zone is ON, press the 2-zone button to switch to 2-zone mode OFF.

Trouble Shooting Guide

Problem	Test	Procedure
Failure to power on	Check for +12V DC output from power source.	Using a volt meter turn the setting of the volt meter to VDC. Check black wire (ground) with one probe from the volt meter/ red wire (positive) with the other probe on the power supply. Reading should be in range +11.6V DC to +14.7V DC output from the power supply.
	Check red, yellow and black power wires are fully inserted into male 12-pin harness on source unit.	Push on the red, yellow and black wires to make sure they are fully seated into the harness and will make good connection to the female pins of the stereo.
	Check for +12V DC across the red and yellow fuses .	Using a volt meter set to VDC, insert the black (ground) probe into the black wire on male harness. Using the red (positive) probe on the volt meter check the fuse on the yellow wire, located on the back of the stereo, by touching the terminal on top of the fuse closest to the stereo. Reading should be in range of +11.6V DC - +14.7V DC. Repeat these steps to test the fuse on the red wire on the back of the stereo.
Problem with audio output	Check 12-pin wiring harness components (male and female) are connected properly and clicked in.	Check that male and female 12-pin harness have a good connection and that the tabs on the side of the plastic 12-pin harness are clicked in to prevent accidental disconnection. Verify 12-pin harness is fully clicked in, creating a flush connection between male and female components.
	Check for good connection with all speakers.	With the stereo unplugged from the 12-pin connector, use a volt meter set to the Ohm setting (Ω). Place the black probe of the meter into the grey/black striped wire on the female side of the 12-pin harness. Place the red probe of the meter into the solid grey wire. Readings below 2 Ohms or above 8 Ohms indicate a problem or short in the line. Repeat test through all speaker connections. Reconnect the stereo to the female 12-pin harness and confirm that the grey, white, green and purple wires are fully and securely inserted in the 12-pin harness.
	Check Audio options and settings.	Press the Audio button and use volume up (+) or volume down (-) buttons to scroll through the audio options. Make sure Balance is set to "L=R" and Fader is set to "F=R". If either option is not set as required, press volme up (+) or volume down (-) to alter the setting.
No FM radio	Check for correct antenna installation.	Make sure there is an antenna is correctly installed into the the input labelled Antenna . Connect the antenna wires to a metal structure (vehicle chassis for example) to improve reception.
	Check the Settings menu to make sure that you are in the correct FM Tuning Area	Hold down the Settings button for 3-5 seconds until the Settings menu appears. Use volume down (-) button to scroll down the menu to the AREA menu item and press ENTER . Verify the correct FM tuning zone, either USA or Europe. Use volume up (+) and volume down (-) to switch between USA or Europe FM Tuning Areas.
No CD functions	Check disc for scratches and imperfections.	Check the back of the disc for any scratches or rough edges that may cause the disc to be unreadable. If scratches or blemishes are present refer to Disc Handling section of this user manual.
	Verify the songs are the apprioiate format	If using a CD-R or a CD-RW verify the file extenstion of the songs/files contained on the disc. MP3 (.mp3) and WMA (.wma) file extensions are supported.

If any of the problems persist after checklist has been made consult your nearest Aquatic AV service dealer.

FCC ID:
MADE IN CHINA

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:
The equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Consult the dealer or an experienced radio/TV technician for help.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user authority to operate the equipment.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering of disassembly is prohibited.

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Made for iPod and Made for iPhone mean that an electronic accessory has been designed to connect specifically to iPod or iPhone respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod or iPhone may affect wireless performance.

Product design and specification subject to change without notice. E&OE.

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